

TU-8 GUITAR & BASS AUTO TUNER

Owner's Manual

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Thank you, and congratulations on your choice of the Boss TU-8 Guitar & Bass Auto Tuner.

Before starting out, please take the time to read through this manual. That way, you can feel confident that you have gained a grasp of every feature the unit provides, and will enjoy years of trouble-free service.

Features

- The TU-8 provides two different tuning modes. For ordinary tuning you can use the AUTO mode. After replacing strings, however, you would use the MANUAL mode, which allows you to specify the string name.

Please note that although a battery was installed in your TU-8 when it was shipped from the factory, it has not been c

Panel Descriptions

Meter

Indicates the amount by which the input note differs from the string name displayed (by the String Name indicator). When the needle reaches the center position ("0"), the pitch is correct.

Internal Microphone (MIC)

Used when tuning acoustic instruments. (Place the TU-8 close to the instrument or vice versa.)

*** The internal microphone will not function when an instrument has been connected to the Input Jack.**

Tuning Guide Indicators

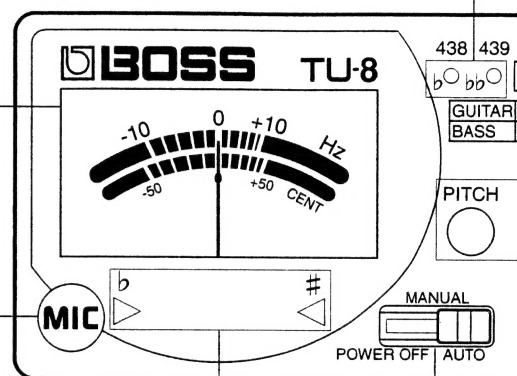
The indicators ("b" and "#") light to act as a tuning guide.

- When "b" lights : Pitch is low (flat)
- When "#" lights : Pitch is high (sharp)
- When "b" and "#" light : Pitch is correct

*** When both indicators light simultaneously, the battery is near exhaustion. For further information, see "Battery Check."**

Flat/Double Flat Indicator

Lights when the Flat/Double Flat tuning mode is used.



Power/Mode Selection Switch

This switch serves two purposes; it turns the power ON/OFF, and provides selection of the operating mode: AUTO or MANUAL.

Ordinarily you'll use the AUTO mode. When replacing strings, however, using the MANUAL mode is more convenient.

Whenever the TU-8 is turned on, it will automatically check the charge condition of the battery. For further information, refer to "Battery Check."

Important notes

POWER SUPPLY

- Before connecting this unit to other devices, turn off the power to all units; this will help prevent damage or malfunction.
- When installing or replacing batteries, refer to "Changing the Battery".

REPLACING BATTERIES

- When replacing batteries, be sure to insert them correctly (to ensure correct polarity).
- Remove the batteries whenever the unit is to remain unused for an extended period of time.

PLACEMENT

- Do not subject the unit to temperature extremes (eg., direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas, or areas that are subject to high levels of vibration.
- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Do not expose the unit to temperature extremes or install it near devices that radiate heat. Direct sunlight in an enclosed vehicle can deform or discolor the unit.

For Germany

Bescheinigung des Herstellers / importeurs

Hiermit wird bescheinigt, daß der/die/das
TU-8 GUITAR & BASS AUTO TUNER
(Gerat, Typ Bezeichnung)

in Übereinstimmung mit den Bestimmungen der
Amtsbl. Vfg 1046 / 1984
(Amtsblattverfügung)

tunk-entstört ist.
Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka / Japan
Name des Herstellers/importeurs

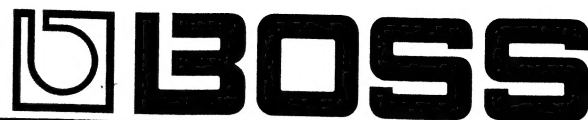
For Canada

CLASS B NOTICE

This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.

CLASSE B AVIS

Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le ministère canadien des Communications.



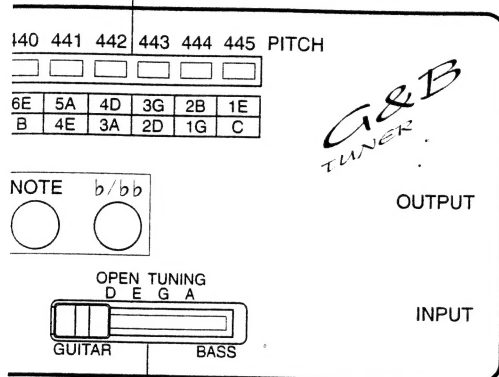
- Allows for the effortless tuning of both electric guitars and basses.
- The broad frequency range also accommodates six-string bass guitars.
- Allows you to easily carry out Flat/Double Flat tuning.
- In addition to standard tuning, the TU-8 provides indication for four 'open' tunings.

- A highly sensitive on-board microphone allows you to tune acoustic guitars as well.
- The Meter and Tuning Guide indicators allow you to tune your instrument accurately, even on a dimly lit stage.
- The TU-8 also allows you to change the reference pitch (438 to 445 Hz; 1 Hz steps).

connected. You will need to refer to the section "Changing the Battery," for instruction on connecting the battery.

String Name Indicator

In the AUTO mode, this indicator automatically displays the note name of the open string you play.
In the MANUAL mode, it displays the note name of the string you wish to tune.



AC Adaptor Jack (DC 9V)

Accepts connection of an AC adaptor (BOSS PSA-Series; optional).

Output (OUT) Jack

Provides output of the signals produced by the instrument connected to the Input jack.

Input (IN) Jack

Connect the instrument you wish to tune to this jack.

Tuning Mode Switch

Selects the musical instrument (guitar or bass) to be tuned. Moreover, when you wish to use an "open tuning," select the tuning required for your performance.

PITCH Button

Press the PITCH button once to confirm the current reference pitch (the appropriate indicator will blink for approximately two seconds). To change the reference pitch, press the PITCH button once again while the indicator is blinking. Each press of the button changes the pitch by 1 Hz. This can be confirmed by watching for the Reference Pitch indicator to begin blinking. The reference pitch can be set anywhere between 438 and 445 Hz (in 1 Hz increments) for note A4.

NOTE Button

Used to select the string (note name) you wish to tune while in MANUAL mode. Each press of the NOTE button will raise the pitch by one string. (For example; 6E->5A->4D->3G->2B->1E) You can confirm the setting via the String Name Indicator. This button will not function in AUTO mode.

Flat Button

Changes between standard tuning and flat tuning. Each press of this button selects one of three conditions: standard tuning, flat tuning and double flat tuning.

MAINTENANCE

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

ADDITIONAL PRECAUTIONS

- Protect the unit from impact.
- Do not allow objects or liquids of any kind to penetrate the unit. In the event of such an occurrence, discontinue use immediately. Contact qualified service personnel as soon as possible.
- Never strike or apply pressure to the display.
- Should a malfunction occur, or if you suspect there is a problem, discontinue use immediately. Contact qualified service personnel as soon as possible.
- To avoid the risk of electric shock, do not open the unit.

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

For the USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Unauthorized changes or modification to this system can void the users authority to operate this equipment.

AUTO Mode Tuning

The string (note) name is indicated automatically when in the AUTO mode. The AUTO mode can be used in the majority of tuning situation.

1.Set the Power/Mode switch to "AUTO".

When the TU-8 is turned on, the reference pitch is automatically set to 440 Hz (for note A4). If you intend to change the reference pitch, do so before you begin tuning.

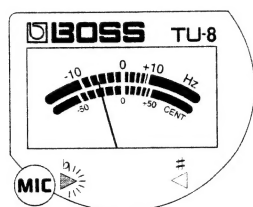
2.Connect your instrument to the Input (IN) jack.

If you wish to tune an acoustic instrument, you will need to use the internal microphone. Place the TU-8 close to the instrument (or vice versa).

3.Select the required Tuning mode (Guitar, Bass or Open Tuning (D, E, G or A)) using the Tuning Mode switch.

4.Play single notes on the instrument.

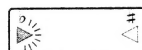
The string (note) name closest to the input note will be indicate by the String Name Indicator. Additionally, the amount by which the input note differs in pitch from the indicated string (note) name can be checked by viewing the Meter and the Tuning Guide Indicators.



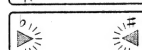
5.Tune the instrument.

When you get the indicator corresponding to the string name you wish to tune to light, tune the instrument so both the "b" and " #" Tuning Guide indicators also light. Tune the note so the Meter's needle is in the center (at "0").

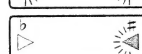
Too low: Raise Pitch



Tuned



Too high: Lower Pitch



Repeat the procedure for each string.

Concerning Open Tuning

You can select one of four typical Open Tunings (D, E, G or A) using the Tuning Mode switch.

When you select an open tuning, the note name of each string will be changed to the note names of those in the open tuning. The tuning procedure is then the same as with standard tuning.

** When you select an Open Tuning, you should first tune each string while in the MANUAL mode.*

** When you use an Open Tuning, the actual note names will be different from those printed on the front panel. Refer to the printing on the rear panel.*

Strings/Note Name Table

	6th String	5th String	4th String	3rd String	2nd String	1st String
GUITAR	E2:82.4Hz	A2:110.0Hz	D3:146.8Hz	G3:196.0Hz	B3:246.9Hz	E4:329.6Hz
OPEN D	D	A	D	F#	A	D
OPEN E	E	B	E	G#	B	E
OPEN G	D	G	D	G	B	D
OPEN A	E	A	E	A	C#	E
BASS	B:30.9Hz	4E:41.2Hz	3A:55.0Hz	2D:73.4Hz	1G:98.0Hz	C:130.8Hz

MANUAL Mode Tuning

The MANUAL mode is used when you wish to tune to the pitch of a specific string. This mode is useful after you have replaced the strings on your instrument.

1.Set the Power/Mode switch to "MANUAL".

When the TU-8 is turned on, the reference pitch is automatically set to 440 Hz (for note A4). If you intend to change the reference pitch, do so before you begin tuning.

2.Connect your instrument to the Input jack.

If you wish to tune an acoustic instrument, you will need to use the internal microphone. Place the TU-8 close to the instrument (or vice versa).

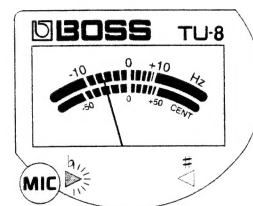
3.Select the required Tuning mode (Guitar, Bass or Open Tuning (D, E, G or A)) using the Tuning Mode switch.

4.Select the string (note name) you wish to tune.

Press the NOTE button repeatedly until the appropriate string (note name) indicator lights.

5.Play single notes on the instrument.

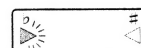
The input note and the amount by which the pitch differs from the selected String Name are shown by the Meter and Tuning Guide Indicators.



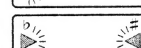
6.Tune the instrument.

After getting both the "b" and " #" Tuning Guide Indicators to light, tune the instrument so the Meter's needle is at "0."

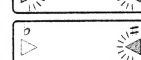
Too low: Raise Pitch



Tuned

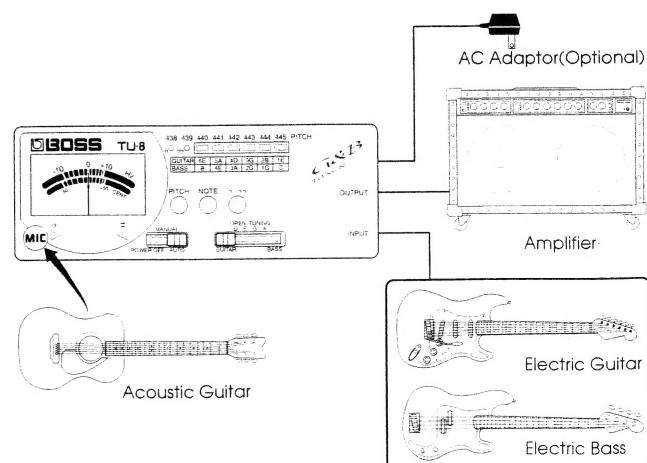


Too high: Lower Pitch



Repeat the procedure for each string.

Making the Connections



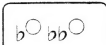
Flat/Double Flat Tuning

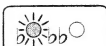
Flat tuning is a semi-tone below standard tuning. The LED display will still show the notes as if it were standard tuning, but the absolute pitch will be a half-step lower. This makes it easier to tune and play in flat keys. Double flat tuning is the same thing only a whole tone lower than absolute pitch.

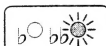
** When you select Open Tuning mode, you cannot select Flat (or Double Flat) Tuning.*

1. Each press of the Flat button selects one of three conditions: standard tuning, flat tuning or double flat tuning.

This condition can be checked by the flashing of the Flat/Double Flat Indicator.

Regular Tuning 

Flat Tuning 

Double Flat Tuning 

** When you select Flat (or Double Flat) tuning, you should first tune each string using the MANUAL mode.*

** Even if you select Flat (or Double Flat) tuning, the TU-8 will return to standard tuning when you power up again.*

Changing the Reference Pitch

Reference Pitch refers to the frequency of note A4 (on a piano, the key at the center of the keyboard) on the instrument that will provide the predominate tonal focus of a performance (such as the piano). You should tune all instruments so they are in tune with this Reference Pitch.

At power up, the reference pitch of the TU-8 is set to 440 Hz (for note A4). If you intend to change the reference pitch, perform the following steps.

1. Set the Power/Mode switch to "AUTO" or "MANUAL".

2. Check the current reference pitch.

Press the PITCH button once and the indicator which shows the current pitch will blink for a few seconds.

3. Adjust the reference pitch.

While the indicator which shows the current pitch is blinking, press the PITCH button once again. Each press of the button raises the pitch by 1 Hz. Press the button enough times to obtain the desired setting for the reference pitch. This can be confirmed by watching for the desired reference pitch indicator to begin blinking. The reference pitch can be set anywhere between 438 to 445 Hz (in 1 Hz increment) for note A4.

If you make no further changes in the reference pitch for a few seconds, the indicator will go out, and the unit reverts to the tuning mode.

** The reference pitch will return to 440 Hz the next time the unit is turned on.*

Battery Check

When the battery is nearly exhausted, the two Tuning Guide Indicators ("b" and "#") will begin blinking. After a few seconds, the indicators stop blinking and you can tune again. At this point, replace the battery as soon as possible.

Furthermore, when powering up or while working, if the battery has been exhausted, the two Tuning Guide Indicators will blink and you cannot tune. Replace the battery immediately.

Flashing 

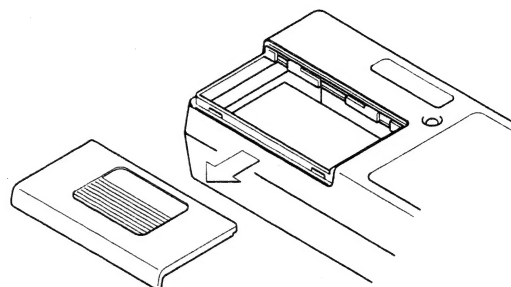
Changing the Battery

1. Press down and slide off the lid of the battery compartment (located on the bottom of the unit).

2. Remove the old battery from the compartment and disconnect the snap cord.

3. Connect the snap cord to the new battery.

4. Place the new battery inside the compartment and slide the lid back into place.



Specifications

TU-8 Guitar & Bass Auto Tuner

Reference Pitch :A4 = 438 Hz to 445 Hz (1 Hz steps)

Tuning Range :A0 (27.5 Hz) to C8 (4186.0 Hz)

Tuning Accuracy :+/- 1 cent

Input Impedance :1 MΩ

Controls :Power/Mode Selection Switch, PITCH Button, NOTE Button, Tuning Mode Switch, Flat Button

Indicators :String Name Indicator, Flat/Double Flat Indicator, Tuning Guide Indicators

Connectors :Input Jack, Output Jack, AC Adaptor Jack

Power Supply :DC 9V :Dry Battery (9V type), AC Adaptor PSA-Series

Current Draw :20 mA (typical)

** Expected battery life under continued use.
(This figure will vary depending on the actual conditions of use.)*

Carbon :approx. 10 hours

Dimensions :149 (W) x 54 (D) x 32 (H) mm
5-7/8 (W) x 2-1/8 (D) x 1-1/4 (H) inches

Weight :175g / 6.2 oz (including battery)

Accessories :Dry Battery S-006P / 6F22 (9 V), Owner's Manual

Option :PSA-Series (AC Adaptor)

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